

### **Claims**

What is claimed is:

1. A system for encoding data, comprising:  
a first subsystem for generating presentation data *via* a first data protocol; and  
a component for encoding data other than the presentation data within the first data protocol *via* a second data protocol, wherein the component encapsulates the encoded data to isolate the second data protocol from the first data protocol to mitigate disruption of the presentation data.
2. The system of claim 1, wherein the second data protocol is encoded *via* non-ASCII characters.
3. The system of claim 2, wherein the second data protocol utilizes XML data.
4. The system of claim 3, wherein the XML data is encoded in a UTF-8 format.
5. The system of claim 1, further comprising an encapsulation sequence to isolate the second data protocol from the formatted data protocol.
6. The system of claim 5, wherein the system further comprises a control sequence associated with the formatted data protocol.
7. The system of claim 6, wherein the formatted data protocol is at least one of a VT100, TN3270, TN5250, VT320, VT340, VT420, VT220, and WYSE protocol.
8. The system of claim 6, wherein the control sequence enables detection of the encapsulation sequence.

9. The system of claim 6, wherein the control sequence enables an audio alarm indicating that the encapsulation sequence was transmitted.
10. The system of claim 6, wherein the control sequence includes an imbedded field to describe the second data protocol.
11. The system of claim 4, wherein the second data protocol provides status relating to the first subsystem.
12. The system of claim 11, further comprising a monitoring subsystem for receiving the status from the first subsystem *via* the second protocol.
13. The system of claim 12, wherein the monitoring subsystem monitors the encapsulation sequence to extract the second protocol to enable logging of the status information.
14. The system of claim 12, wherein the monitoring subsystem communicates to the first subsystem *via* the second data protocol.
15. A method for encoding data, the method comprising:
  - generating presentation data *via* a first data protocol;
  - encoding data other than presentation data *via* a second data protocol; and
  - encapsulating the encoded data to isolate the second data protocol from the first data protocol to mitigate disruption of the presentation data.
16. The method of claim 15, wherein the first data protocol comprises a formatted data protocol.

17. The method of claim 16, wherein the formatted data is at least one of a VT100, TN3270, TN5250, VT320, VT340, VT420, VT220, and WYSE protocol.
18. The method of claim 15, wherein the second data protocol is an XML stream.
19. The method of claim 18, wherein the XML stream is encoded in UTF-8 format.
20. The method of claim 15, wherein the encoded data is encapsulated *via* a control sequence.
21. The method of claim 20, wherein the control sequence enables detection of the encapsulated encoded data.
22. A computer-readable medium having computer-executable instructions for performing the method of claim 15.
23. A system for encoding data, comprising:
  - means for generating presentation data *via* a first data protocol;
  - means for encoding data other than presentation data *via* a second data protocol; and
  - means for encapsulating the encoded data to isolate the second data protocol from the first data protocol to mitigate disruption of the presentation data.
24. The system of claim 23, wherein the first data protocol comprises a formatted data protocol.
25. The system of claim 24, wherein the formatted data is at least one of a VT100, TN3270, TN5250, VT320, VT340, VT420, VT220, and WYSE protocol.

26. The system of claim 23, wherein the second data protocol is an XML stream.
27. The system of claim 26, wherein the XML stream is encoded in UTF-8 format.
28. The system of claim 23, wherein the encoded data is encapsulated *via* a control sequence.
29. An encoded data signal for transmission between at least two systems, comprising:
  - a first data protocol containing presentation data; and
  - a second data protocol encapsulated within the first data protocol to isolate the second data protocol from the presentation data.